

AMENDMENTS TO THE CLAIMS

Listing of the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

B1
1. (Currently amended) An isolated polynucleotide comprising the nucleotide sequence which encodes a protein having the amino acid sequence set out in SEQ ID NO: 2

Met-Asn-Gly-Phe-Ala-Ser-Leu-Leu-Arg-Arg-Asn-Gln-Phe-Ile-Leu-Leu-Val-Leu-Phe-Leu-Leu-Gln-Ile-Gln-Ser-Leu-Gly-Leu-Asp-Ile-Asp-Ser-Arg-Pro-Thr-Ala-Glu-Val-Cys-Ala-Thr-His-Thr-Ile-Ser-Pro-Gly-Pro-Lys-Gly-Asp-Asp-Gly-Glu-Lys-Gly-Asp-Pro-Gly-Glu-Glu-Gly-Lys-His-Gly-Lys-Val-Gly-Arg-Met-Gly-Pro-Lys-Gly-Ile-Lys-Gly-Glu-Leu-Gly-Asp-Met-Gly-Asp-Arg-Gly-Asn-Ile-Gly-Lys-Thr-Gly-Pro-Ile-Gly-Lys-Lys-Gly-Asp-Lys-Gly-Glu-Lys-Gly-Leu-Leu-Gly-Ile-Pro-Gly-Glu-Lys-Gly-Lys-Ala-Gly-Thr-Val-Cys-Asp-Cys-Gly-Arg-Tyr-Arg-Lys-Phe-Val-Gly-Gln-Leu-Asp-Ile-Ser-Ile-Ala-Arg-Leu-Lys-Thr-Ser-Met-Lys-Phe-Val-Lys-Asn-Val-Ile-Ala-Gly-Ile-Arg-Glu-Thr-Glu-Glu-Lys-Phe-Tyr-Tyr-Ile-Val-Gln-Glu-Glu-Lys-Asn-Tyr-Arg-Glu-Ser-Leu-Thr-His-Cys-Arg-Ile-Arg-Gly-Gly-Met-Leu-Ala-Met-Pro-Lys-Asp-Glu-Ala-Ala-Asn-Thr-Leu-Ile-Ala-Asp-Tyr-Val-Ala-Lys-Ser-Gly-Phe-Phe-Arg-Val-Phe-Ile-Gly-Val-Asn-Asp-Leu-Glu-Arg-Glu-Gly-Gln-Tyr-Met-Phe-Thr-Asp-Asn-Thr-Pro-Leu-Gln-Asn-Tyr-Ser-Asn-Trp-Asn-Glu-Gly-Glu-Pro-Ser-Asp-Pro-Tyr-Gly-His-Glu-Asp-Cys-Val-Glu-Met-Leu-Ser-Ser-Gly-Arg-Trp-Asn-Asp-Thr-Glu-Cys-His-Leu-Thr-Met-Tyr-Phe-Val-Cys-Glu-Phe-Ile-Lys-Lys-Lys-Lys.

2. (Currently amended) An isolated polynucleotide comprising the nucleotide sequence set out in SEQ ID NO: 1:

cagcaatgaa tggtttgca tcttgcttc gaagaaacca atttaccctc
ctgttactat ttcttttgca aattcagagt ctgggtctgg atattgatag
ccgtcctacc gctgaagtct gtgccacaca cacaatttca ccaggaccca

BI
conclude

aaggagatga tggtagaaaa ggagatccag gagaagaggg aaagcatggc
aaagtgggac gcatggggcc gaaaggaatt aaaggagaac tgggtgatat
gggagatcgg ggcaatattg gcaagactgg gccattggg aagaagggtg
acaaagggga aaaaggttg cttggaatac ctggagaaaa aggcaaagca
ggtactgtct gtgattgtg aagataccgg aaattgttg gacaactgga
tattagtatt gcccggctca agacatctat gaagttgtc aagaatgtga
tagcagggat tagggaaact gaagagaaat tctactacat cgtgcaggaa
gagaagaact acagggaatc cctaaccac tgcaggattc ggggtggaat
gctagccatg cccaaggatg aagctgcaa cacactcacc gctgactatg
ttgccaagag tggctcttt cgggtgttca ttggcgtgaa tgacctgaa
agggagggac agtacctgtt cacagacaac actccactgc agaactatag
caactggaat gagggggaac ccagcgacc ctatggatcat gaggactgtg
tggagatgct gagctctggc agatggaatg acacagagtg ccacttacc
atgtactttg tctgtgagtt catcaagaag aaaaagtaac ttccctcacc
ctacgtattt gctattttcc tgtgaccgtc attacagtta ttgttatcca
tcttttttt cctgattgta ctacattga tctgagtcaa catagctaga
aaatgctaaa ctgaggtatg gagcctccat catcatgctc tttgtgatg
atttcatat ttccacacat ggtatgttat tgaccaata actcgccagg
ttacatgggt ctgagagag aattttaatt actaattgtg cacgagatag
ttggtgtct atatgtcaa tgagtgttc tcttggtatt tgctctacca
tctctcccta gagcactctg tgtctatccc agtggataat ttccagttt
actggtgatg attaggaagg ttgttgatgg ttaggctaac ctgccctggc
ccaaagccag acatgtacaa gggctttctg tgagcaatga taagatcttt
gaatccaaga tgcccagatg tttaccagt cacaccctat ggccatggct
atacttgga gttctccttg ttggcacaga catagaaatg cttaacccc
aagcctttat atgggggact tctagcttg tgtctgttt cagaccatgt
ggaatgataa atactctttt tgtgctctg atctatgat ttactaaca
tataccaagt aggtgctttg aaccctttc tgtaggctca cacttaate
tcaggcccct atatagtcac actttgattt aagaaaaacg gagcc.

3. (Canceled)

4. (Canceled)

B2

5. (Currently amended) An [the] isolated polynucleotide comprising a nucleotide sequence which [can] hybridizes to a non-coding strand complementary to SEQ ID NO: 1 [the polynucleotide according to any of claim 2] under the following hybridization conditions: hybridization at 55°C in a hybridization solution comprising 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising 2 X SSC; wherein the polypeptide encodes a [the] protein [encode by said polynucleotide] having anti-virus activity and comprises: (1) a Ca²⁺-dependent carbohydrate recognition domain (CRD), (2) a neck region, (3) a collagen-like region, and (4) an N-terminal region containing cysteine.

6. (Previously amended) The polynucleotide according to claim 1, wherein said polynucleotide is cDNA.

7. (Canceled)

B3

8. (Currently amended) An isolated collectin protein comprising the amino acid sequence set out in SEQ ID NO: 2:

Met-Asn-Gly-Phe-Ala-Ser-Leu-Leu-Arg-Arg-Asn-Gln-Phe-Ile-Leu-Leu-Val-Leu-Phe-Leu-Leu-Gln-Ile-Gln-Ser-Leu-Gly-Leu-Asp-Ile-Asp-Ser-Arg-Pro-Thr-Ala-Glu-Val-Cys-Ala-Thr-His-Thr-Ile-Ser-Pro-Gly-Pro-Lys-Gly-Asp-Asp-Gly-Glu-Lys-Gly-Asp-Pro-Gly-Glu-Glu-Gly-Lys-His-Gly-Lys-Val-Gly-Arg-Met-Gly-Pro-Lys-Gly-Ile-Lys-Gly-Glu-Leu-Gly-Asp-Met-Gly-Asp-Arg-Gly-Asn-Ile-Gly-Lys-Thr-Gly-Pro-Ile-Gly-Lys-Lys-Gly-Asp-Lys-Gly-Glu-Lys-Gly-Leu-Leu-Gly-Ile-Pro-Gly-Glu-Lys-Gly-Lys-Ala-Gly-Thr-Val-Cys-Asp-Cys-Gly-Arg-Tyr-Arg-Lys-Phe-Val-Gly-Gln-Leu-Asp-Ile-Ser-Ile-Ala-Arg-Leu-Lys-Thr-Ser-Met-Lys-Phe-Val-Lys-Asn-Val-Ile-Ala-Gly-Ile-Arg-Glu-Thr-Glu-Glu-Lys-Phe-Tyr-Tyr-Ile-Val-Gln-Glu-Glu-Lys-Asn-Tyr-Arg-Glu-Ser-Leu-Thr-His-Cys-Arg-Ile-Arg-Gly-Gly-Met-Leu-Ala-Met-Pro-Lys-Asp-Glu-Ala-Ala-Asn-Thr-Leu-Ile-Ala-Asp-Tyr-Val-Ala-Lys-Ser-Gly-Phe-Phe-Arg-Val-Phe-Ile-Gly-Val-Asn-Asp-Leu-Glu-Arg-Glu-Gly-Gln-Tyr-Met-Phe-Thr-Asp-Asn-Thr-Pro-Leu-Gln-Asn-Tyr-Ser-Asn-Trp-Asn-Glu-Gly-Glu-Pro-Ser-Asp-Pro-Tyr-Gly-His-Glu-Asp-Cys-Val-Glu-Met-Leu-Ser-Ser-Gly-Arg-Trp-Asn-Asp-Thr-Glu-Cys-His-Leu-Thr-Met-Tyr-Phe-Val-Cys-Glu-Phe-

Conclusion

Ile-Lys-Lys-Lys-Lys.

9. (Originally filed) A collectin protein comprising the amino acid sequence encoded by the polynucleotide comprising the nucleotide sequence set out in SEQ ID NO: 1:

cagcaatgaa tggctttgca tccttgcttc gaagaaacca atttaccctc
ctggtactat ttcttttga aattcagagt ctgggtctgg atattgatag
ccgtcctacc gctgaagtct gtgccacaca cacaatttca ccaggaccca
aaggagatga tggtgaaaaa ggagatccag gagaagaggg aaagcatggc
aaagtgggac gcatggggcc gaaaggaatt aaaggagaac tgggtgatat
gggagatcgg ggcaatattg gcaagactgg gccattggg aagaagggtg
acaaagggga aaaagggttg cttggaatac ctggagaaaa aggcaaagca
ggtactgtct gtgattgtgg aagataccgg aaattgttg gacaactgga
tattagtatt gcccggctca agacatctat gaagttgtc aagaatgtga
tagcagggat tagggaaact gaagagaaat tctactacat cgtgcaggaa
gagaagaact acagggaatc cctaaccac tgcaggattc ggggtggaat
gctagccatg cccaaggatg aagctgcaa cacactcatc gctgactatg
ttgccaagag tggcttctt cgggtgttca ttggcgtgaa tgacctgaa
agggagggac agtacatgtt cacagacaac actccactgc agaactatag
caactggaat gagggggaac ccagcgacc ctatggtcac gaggactgtg
tggagatgct gagctctggc agatggaatg acacagagtg ccattctacc
atgtactttg tctgtgagtt catcaagaag aaaaagtaac ttccctcatc
ctacgtattt gctattttcc tgtgaccgtc attacagtta ttgttatcca
tcctttttt cctgattgta ctacattga tctgagtcaa catagctaga
aatgctaaa ctgaggtatg gaggctccat catcatgctc tttgtgatg
atttcatat ttacacacat ggtatgttat tgaccaata actcgccagg
ttacatgggt ctgagagag aattttaatt actaatttg cagagatag
ttggtgtct atatgtcaa tgagttgtc tcttggtatt tgctctacca
tctctcccta gagcactctg tgtctatccc agtggataat ttccagttt
actggtgatg attaggaagg ttgttgatgg ttaggctaac ctgccctggc
ccaaagccag acatgtacaa gggctttctg tgagcaatga taagatcttt
gaatccaaga tgcccagatg ttaccagt cacaccctat ggccatggct
atacttgaa gtctccttg ttggcacaga catagaaatg ctttaacccc

aagcctttat atgggggact tctagctttg tgtcttggtt cagaccatgt
ggaatgataa atactctttt tgtgcttctg atctatcgat ttactaaca
tataccaagt aggtgctttg aaccctttc tgtaggctca caccttaatc
tcaggcccct atatagtcac actttgattt aagaaaaacg gagcc.

10. (Cancelled)

B4
11. (Currently amended) A polypeptide comprising the collectin protein according to claim 8 or 9 [7], wherein the amino acid sequence of the polypeptide comprises deletion, substitution and/or addition of one or more amino acids of the collectin protein, and wherein the protein comprises: (1) a Ca^{2+} -dependent carbohydrate recognition domain (CRD), (2) a neck region, (3) a collagen-like region, and (4) an N-terminal region containing cysteine.

B5
12. (New) A method for isolating a polynucleotide encoding the collectin protein according to claim 8 or 9 with anti-virus activity comprising: (1) a Ca^{2+} -dependent carbohydrate recognition domain (CRD), (2) a neck region, (3) a collagen-like region, and (4) an N-terminal region containing cysteine; comprising the steps of:

- (i) preparing a probe comprising of the polynucleotide according to SEQ ID NO: 1;
- (ii) hybridizing the probe with a candidate polynucleotide at 55°C in a hybridization solution comprising 5 X SSC, 1% blocking agent, 0.1% N-lauroyl sarcosine and 0.02% SDS; and washing at 55°C in a wash solution comprising 2 X SSC; and
- (iii) isolating the hybridized polynucleotide.

13. (New) An isolated polynucleotide comprising a nucleotide sequence complementary to the isolated polynucleotide set out in claim 5.